

TABLE I

cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:37	Late	LPS-051	GACCGCTTGTTCAATGCAGAATCTCGAAGAGATGTCTTGGACAAATACTGAACTGG CACGATTGGTGTAGTGCGGTTCAAAAGGCGCTCCAGATTCGTCTGGAACGAATCTT CATACGCTGAACAATTAGACATCTTGTACGCAAGAGAATTACGATCGGCCATATAAA AACCCCAAAGAGAAGAAAGTGTTCGAAATTCTCCAGAAAACAGTCTTATGCCAC CGATTTGTCTTTTCAACATGCATTTGCAATGAAGTCTTTGGATTCTTACTGTGAGTG CTGATCAGCAACGGATTTTCGATCTGTATAGCTCTGCCGATTCTGGTTAAAGCAG CTAAGAGTTAGGCATCCAGATTTTGAGTTTTTGCATCTCACAATGTTTGAATACATT TCAAATCCATTGTTGGAGTAACCTAACAACTGTACTCTTCTTCTTCTATTCTGAA GCCCTCTGCCAGTTTAAGGCAGAGAACTGAGTTATCTACAAGCGGTC
SEQ ID NO:38	Late	LPS-052	GACCGCTTGATAATAAAGTGGTACCGCGTCCTGCAAACAGGGTTCTCTTGCCATC CTGCTACAACCCTGCAGTGGTCGCAGTAGAGAGAATCGGAGCAACGAACGTTTTTC CCGAATATATGGAGCGGGAGGAAGAGTTTTCTTGCTGATGATCCAATCGGAGTCGA ACTGCCACCGCTGGATGAAGGGCGGCGAGGAAATCTTGGGGGGCAGAGGCCCGT CGGCGTAGGAAATAAGAAACGATTTGATATGGAACGAAAGGGCCCGTCCAGGGTT CGATCCCCGGCAGGGCAGCCAGCCCCGAACAAACAAACAATAAGAACAACAG CAAAGTAAAGAAAGCACCAGAAGAAACAGCAGCAGACGAAGAGTAAGGAGCTGC CCACAAGCGGTC
SEQ ID NO:39	All	LPS-053	GACCGCTTGTAATCCACAGCATTTTCAATAACTTCCTGAGGTGACATCCACCTCCAC TCAGAAAACCTCGGCTGCATCTGTCCCATCACCAGCTAGATTGATCTCACTCTCGTC TCCTCTAAATTTTAGGAGGAACCATTTCTGTGCTTGACCTTCCATTGCCTCCCCA CAAGCGGTC
SEQ ID NO:40	Middle	LPS-054	GACCGCTTGATATAATGTGAAGACACAATAAAATTTTGTCCAACAAAGCAACCAAA CGACCAAAAATTTAGCTGTGACATCAAAAAGCTCAACCCCTACAATGAATGTAACCT TAATCTAGAAAATTGATCCATGATCTCCACTGAATTTTCTCGTTATCCTGAAGAAT GAGAACTTAAATGTACCCGATTCCCTCAACCAAGCCCCCACAAGCGGTC
SEQ ID NO:41	Early	LPS-055	GACCGCTTGTAATCCACAGCATTTTCAATAACTTCCTGAGGTGACATCCACCTCCAC TCAGAAAACCTCGGCTGCATCTGTCCCATCACCAGCTAGATTGATCTCACTCTCGTC TCCTCTAAATTTTAGGAGGAACCTGTAATTGGTAGGGGCTTGTCAATAATGATCAAG ACGACCCGCATCGTGATGCCAAGCTTAGTCTTTCTACTTACTGTCTATGTAATGGTC ACGGGGCCCTTCTTATGTTTATGTCTCTTTGAAATGGACGATTTTTTTGTTTTAGGTAT TCAGTTTCTGAAGCTGTTTTGGTAGTAACTGGGCTCAATCATTTCTGTTGCTTGAA CTTTCCATTGCCTCCCCCACAAGCGTCAGCCGAATTCTGCAGATATCCATCACCT GGGGGGGGCGCTCGAACATGCATCTAGAAGGCCAATCCCCTATATGAATTCTATTA AATCCCTGGCCTCGTTTTA
SEQ ID NO:42	Early	LPS-056	GGTGCGATCCAGAAAACATCATCTCTCACTGCTCGTGAACAAAATGCTGGTTTCAT AGCCATCACTAAGGCTAAGGTACTATCCAGCCAACTGATCTCAAATAATAATTTCA TAAGCTTAAATAAATAGTCCAGCCAGTAGATGGAGCCAAAAGCCATAGAAGCTTC AAATACTTGTGGTATCAATCTCTCCTCTGTTAAGGGAGGTATCAGATCAGAAGCACT AATCAAATGCATACATAAATGCAGTAGACTGCAATAAAACAAAATCTGCAGATAGCA ACAGAGCGCTTAACGAACGGAAAAGAGTTTAACTTGATCTATCACAGGATCGCACC
SEQ ID NO:43	All	LPS-057	GGTGCGATCCACAATAGTTTCGTACGAGCGACGTCTATCTGGTTAATCAGAACACAT ATCTAATTTGGAAATTTGTGGGCATAAAGCTCCACAGTGTAGGTGGGCTAATCCCA TGAAACATTACTCTTCAAAACATCATACACTGAGGTGGAAATTGCAAAAGATTATT ACTGGATGCTGATCTGGGACTAAGGTGGTGGCCATTGGTAATGTTGTGTTTCAGAA ATATATCTTCATGATGATCAGTAGTTGCATCTGGTTGGAAGATGATAAATTCTGGT AATTTGTCTTGGGATCGCACC

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:44	Late	LPS-058	GGTGCGATCCAACCTAGAAGAATATAAAGAAAAATTACGGACTACCAGAAAACATCA CATCACAGTGTATTGCATTCTCAATAATCAGAACTGTACTGGCTAATATCGCTGTGC CTGTCGTTTCATTTTCCTGTCATCCGCATAGGGCCCCCTCATTTTCCCTATCTTGCAG AAATCCAAGAAATGCAAGAAAACCAAAAAGGAAGAAACCCCCAGAGGAAGAGTCCG AAGAGGATATGGGTGTCAGTCTTTTTGACTAGATTGGAGGATCGCACC
SEQ ID NO:45	Early	LPS-059	GGTGCGATCCCAGAACATTTTCAGACAGATTAAAACAAGATCTAGTCAATTCCTACAA GGGAAACTTTTGTCAAGATCCGGATCCAGATTTTCTCAAGTAAAATAATCTCATT AAATCCAAGCCAATCTCTAGCAAAATTCAAACACTTTTTTATTAATCCAAGCCATATA TCTGGCAAATTCACCGAAATATGTACAATCGCAGCGCATTGCTTGGCTTGCAGACAG AAACCATATTGCACGTCTTCATAAGGCTTTGGATCGCACC
SEQ ID NO:46	All	LPS-060	GGTGCGATCCAACAACACAGCTTCACACTTACTCCATCCTCTGGAACCTCTCATCAG ATTGTGTTCTTCGTAGACCAAGTTCCTGTGAGAGTCCACAGGCACACTGAGGCTAC AAGCGATGTGTTCCCTAAAGAACAGGGGATGTACATGTTTTCCAGCATTGGAATG CAGACGACTGGGCAACCAGGGGTGGGCTTGGGAAGACAACTGGACTGCCGCTC CATTCAGCGGATCGCACC
SEQ ID NO:47	All	LPS-061	GGTGCGATCCCAACACCAAGTGAGAATGAAGCAATATAAATCAGCAGACTCACTAA AGCCAAAACAGTGAAAAATGTTTCATATTGGGAATCTGCTCCAGAATGAGCCTTCAA GTAAATGACAACTAACGAGGAAGAGACATACGGCCATGCCCCCAGATGAGACC ATGAGGAGGAGACGTGTCGCGGCTTTATCCATGAGCCATACAGCAACTGCAGTCAT GATGACCTGGATCGCACC
SEQ ID NO:48	Late	LPS-062	GGTGCGATCCAGGAAATCATCAAAGGGGAGCACATCCAATGTGCAAAATAAGATCA TCATGCAGCAAGATCTCTGAAATATAAGCTCTGTAAGACCAATCTGAAGTGCTGATG ATCAATATGAACTGAAACATCATGCCACAATGGGCTGGTACTTGTGCAAAATTCTCT GGCATGTGATGAGAATCACATGGTTACCTCTTTGGATCGCACC
SEQ ID NO:49	Early	LPS-063	GGTGCGATCCAAAGAGCCTTCTTGCAGACAATCCGTGAAAACATGGCTATACAATA AATTCCCAGTTTGGAAATCTAAATAAACTGTTCAATATTTGAAGGCCTCTGATATCA CAGAGACTGATATTAGAATGGAAGCATGTAGCAACCCTAGAAGCTTTTCGCATAAAG ATACCAGATTAATTCATAAGAAGGATCTCTCGTTCCACCAGTCACATATCACAGTCGG ATCGCACC
SEQ ID NO 50	Late	LPS-064	GGTGCGATCCGTTAGATGAGCTGCCAAGTATGGAATTATTGACATTTTGGACGGG TTATGGGCAGAGGGATGTGCCAAGCTGAAGAAGATACCGGGGTTGGAGCAAGCCA CAAACTTCGAGAGTTAGATGTTAGTGGGTGCCCTCAGTTAGATGAGCTGCCAAGT ATGGAATTATTGACATCTTTGGACGGCTTGTGGGCAAAGGGATCGCACC
SEQ ID NO:51	Middle	LPS-065	GGTGCGATCCACATAGTTTGAATGCAAGGAAATTGCACATACTTCGTGGGGAATTT CGATGGCAAATCAGTCCAGGTAAATGACTTCTCAACATAGGTCCAAAACCTTTTCAT AGACCAGATCTTGACCGTGTTGTCCATGCCACAGCTTGCAATACGATATACATCTG AAGGATGAAAATCTACACTGAGAACTTCATTGCGATGTCCCCCAGCTCCAGCAAAT ATCAAAATGCATATTCCAGTTTGAACATTCCAGAGTCGTACAGATTTCATCTTTGCTA GCAGATAAAATAAGGGAAGGTTTCAGTTGCTTGGGTCTTATTTTCATTACAGAACT CCATGGCCAACGAACTCTTATGGACTTTTCATTTGCACATCCATTCTCGAATTATA CATTGTGACCGCAGCCACTAATAATGGGGAACATCACTCGCCTGCCCACTTATGTG TTAAAGAATC
SEQ ID NO:52	Late	LPS-066	GGTGCGATCCCCTCCATTACCATGGTATACTGTTCCAAAGGTTCCAGAGCCTAGC TCTTTCAATTCTTCAAGGTCAGCATTCTTTATTATCTGGAACTTCGCTAGCTGTGT CTATAATCACGAAACCCAGACGGGGAATAATAGGCGATGAAGTTTCTCTTATCCA TAACCGTTGCAAAGATCTTACACGGAGTTTTCTCTTCTTCTGCGTGGCTTTTCTTTC CCGTATTCTCGGATCGCACC

LAW OFFICES

FINNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000

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cDNA	Embryo Phase	Clone	Nucleotide Sequence
SEQ ID NO:53	Late	LPS-067	GGTGCGATCCATACATGCGAGGGCGCATGAGAGACTACCACAAATCCTACATACCT CCATTCACCCCTGGATCGGTTATACAAGGATTTGGGGTGGCTAAAGTGATACTCTC AAATCACCCAGACTTCAGAGAGGGTGACTTTGTATCTGGTACTATAGGATGGGAAG AGTACAGCATAATACCAAAGGGAGTAACCTTAAGAAAGATCAAATATACGGACGTAC CACTTTTCATATTTTGTGGGTGTTTTAAGAATGCCCGGGTTTACTGCTTATGCTGGAT TCTTTGAAGTTTGCTCTCCTAAAAAGGGGGAGCATGTTTTTGTCTCTGCCGCTTCA GGAGCTGTTGGCCAGCTTGTTGGGCACTTTGCAAAGTTGATGGGTTGCTATGTTGT TAGGGAGCGCGGGTAACAAACAGAAGGCTGATCTGCTGAAACATAAAATGGGCTTT GATGATGATCTCCACCATAACGAGGAGCATGACTTCGATGTGGCTTTAAAAAGGCA TTTTCCAGATGGGATTGCACC
SEQ ID NO:54	Late	LPS-069	GGTGCGATCGAACTGAATGAATGACGTTGCCAAGCTATGTTTGGGAATTAACCTT GAATGCCGTTATTCTCTCCTTTTTTCCAAAAGGGCCTTTTCTGCCAGAAAACCTTAA TTTCTGACTGGTTTCCAAGTCCAATTTTTAAATATGGATTGGTTTACCATTGAAGG CACCACCATGCTCTGAAAGTTATGGACTGCACTTGCCCCAGTGCTATATTTAGTCC AGATAGCGCTTGTTCTCTAAATGCATCTCCCTGCTCGGATATCACC
SEQ ID NO:55	Late	LPS-070	GGTGCGATCCGAACAGAGGGAGCAGATTTTGCCCTTGCAAGTATTCACAACATTAG AGAAGCCCTGCCAGAGATATGGGAGGAAGAAGATGCAGAGAACACCAAAAATGTT GTGGGATCAAGAGGAGCGGATGCAACTATAGAACTGTTGTCACGGCATAAGCCA TCGCCTCATTGAATGAGGGAATGGAGGACTAGACAAATCCCTTTGGATCGCACC
SEQ ID NO:56	Middle	LPS-071	GGTGCGATCCGATTGGGAGCTGCAGCCTTGGAAGCTTTAGAATCAAATTGCAC TCATCCTCCAGGAGGTATTGAGAAGTCAATTTCTCAAGGTCTACAGTGACAGAAGG AACCATCTTGACAATCTTATCAGGTTTCTGCTCTGGTTAAACACTTCAACTTTGAC AGGACGAGAGAATGTGACTAATTCATCTTCTTCATCAGACTCTACATCTTCTGTTT CAAGAAACAAAGATACTGATCATCACTAGGGCAAGAATTGATGATTTTGATATCTCT GGAGAAGCCAGTGTTTACATTGGTTTGCTTCATGGCCACCAGTCTATGGCATAAAG CTTTCCCGAAAGGGTACTTGGCAGATTTAACAGAGCCCAACGTTATATTTAAGGCC CATCTCTTTGCTCTCAAAATTTTTCTTGATCCTCTGGAGAATATAAAACCCCTTGG TGTCTCTTTCCACAAACACCTTCTCATTGATC
SEQ ID NO:57	Late	LPS-072	GGTGCGATCCAAGTGAAGAAGGGTGTTTGGTGGAAAGATGACACCAAGTGGGTTCT ATATTCTCCAGAGGATGCAAGAAAAATTTTGAGAGAAAGAAGATGGGCCCTTAAATA TAACGTGGGGTTCTGTAAATCTGCCAAGTACCCTTCAGGAAAGTTTATGCCATAG ACTTGGTGGCCATGAAGCAAACCAATGTAAACACTGGTTCTCCAGAGATATCAAAA TCATCAATTCTTGCCCTAGTGATGATCAGGAAGATGTAGAGTCTGATGAAGAAGAT GAATTAGTCACATTCTCTCGTCCTGTCAAAGTTGAAGTGCTTAACCAGAGCAGGAA ACCTGATAAGATTGTCAAGATGGTTCCTTCTGTCACTGTAGACCTTGAGAAATTGAC TTCTCAATACCTCCTGGAGGATGAGTGCAATTTGATTCTAAAGCTTCCCAAGGCTG CAGCTGCCCAATCGGATCGCACC
SEQ ID NO:58	Late	LPS-073	GGTGCGATCCATGTAGTGCCAACCTTACGAGATCACTAACTTTAAACTATCATGCAA TTGGCCAATAGAAGCGACACTTGCTGTGCCAAAGTATCGATAGGCTACTCCCGATG GCTCAATCATATATAGTTGGGGCCCATCTCTATCATAACCTCCAAGGATAACTCCAG ATCCAAAAGGCCTTAACCACCAATATAGTGTGCACAAATGCACATAACTGGCAACA CGTTCACAAAGTTCCTTAAT
SEQ ID NO:59	All	LPS-074	GGTGCGATCCCATGGGATAGTTGCAAGACACACAAATTTGTTGTGAAAGAAGAGAG ACACGCACAGACAACCATATGATCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTAGCAAAATTCAAACACTTTTTATTAAATCCAAGCCATATATCTGGCAAATTCACCG AAATATGTACAATCGCAGCGCATTGCTTGGCTTGCAGACAGAAACCATATTGCACG TCTTCATAAGGCTTTGGATCGCACC

LAW OFFICES

INNEGAN, HENDERSON,  
FARABOW, GARRETT,  
& DUNNER, L.L.P.  
1300 I STREET, N. W.  
WASHINGTON, DC 20005  
202-408-4000